

WHAT IS CLAIMED IS:

1. An isolated polynucleotide comprising:
  - a) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:2;
  - b) a nucleotide sequence encoding a polypeptide comprising amino acid residues 72-93, 147-162, 191-211 OR 217-238 of SEQ ID NO:2;
  - c) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:4;
  - d) a nucleotide sequence encoding a polypeptide comprising amino acid residues 55-76, 132-150, 177-199 or 213-234 of SEQ ID NO:4;
  - e) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:6;
  - f) a nucleotide sequence encoding a polypeptide comprising amino acid residues 47-68, 123-138, 167-187 or 193-214 of SEQ ID NO:6;
  - g) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:8;
  - h) a nucleotide sequence encoding a polypeptide comprising amino acid residues 46-67, 122-140, 166-187 or 194-213 of SEQ ID NO:8;
  - i) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:9;
  - j) a nucleotide sequence encoding a polypeptide comprising amino acid residues 77-98, 153-167, 197-217 or 223-242 of SEQ ID NO:9;
  - k) nucleotides 232-1599, 445-513, 670-717, 802-864 or 880-945 of the nucleotide sequence of SEQ ID NO:1;



- e) the amino acid sequence of SEQ ID NO:6;  
f) amino acid residues 47-68, 123-138, 167-187 or 193-214 of SEQ ID NO:6;  
g) the amino acid sequence of SEQ ID NO:8;  
5 h) amino acid residues 46-67, 122-140, 166-187 or 194-213 of SEQ ID NO:8;  
i) the amino acid sequence of SEQ ID NO:9; or  
j) amino acid residues 77-98, 153-167, 197-217 or 223-242 of SEQ ID NO:9;
- 10 9. A composition comprising the polypeptide of Claim 8 and a carrier.
11. An antibody directed against the polypeptide of Claim 8.
- 15 11. A method for detecting a polynucleotide of Claim 1 or 2 in a sample, comprising:  
a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide for a period sufficient to form the complex; and  
20 b) detecting the complex,  
so that if a complex is detected, a polynucleotide of Claim 1 or 2 is detected.
12. A method for detecting a polynucleotide of Claim 1 or 2 in a sample, comprising:  
25 a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to a polynucleotide of Claim 1 or 2 under such conditions; and  
b) amplifying the annealed polynucleotides,  
so that if a polynucleotide is amplified, a polynucleotide of  
30 Claim 1 or 2 is detected.
13. The method of Claim 12, wherein the polynucleotide is an RNA molecule that encodes a polypeptide of Claim 8, and

the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.

14. A method for detecting a polypeptide of Claim 8 in  
5 a sample, comprising:

- a) contacting the sample with a compound that binds to and forms a complex with the polypeptide for a period sufficient to form the complex; and
  - c) detecting the complex,
- 10 so that if a complex is detected, a polypeptide of Claim 8 is detected.

15. A method for identifying a compound that binds to a polypeptide of Claim 8, comprising:

- a) contacting a compound with a polypeptide of Claim 8 for a time sufficient to form a polypeptide/compound complex; and
  - b) detecting the complex,
- so that if a polypeptide/compound complex is detected, a compound that binds to a polypeptide of Claim 8 is identified.

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16. A method for identifying a compound that binds to a polypeptide of Claim 8, comprising:

- a) contacting a compound with a polypeptide of Claim 8, in a cell, for a time sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene sequence in the cell; and
  - b) detecting the complex by detecting reporter gene sequence expression,
- so that if a polypeptide/compound complex is detected, a compound that binds to a polypeptide of Claim 8 is
- 25
- 30 identified.

17. A method of modulating activity of a polypeptide of Claim 8, comprising contacting a cell that expresses the

polypeptide with a compound that modulates activity of the polypeptide for a time sufficient to modulate said activity.

18. A method of modulating activity of the polypeptide  
5 of Claim 8, comprising contacting the polypeptide with a compound that modulates activity of the polypeptide for a time sufficient to modulate said activity.

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